

# **Lamprey River Instream Flow Pilot Program**

## **Preliminary IPUOCR List**

**June 13, 2005**  
**WMPAAC Meeting**  
**Durham Police Dept.**

**AUG 27 2003**

# IPUOCRs

- Flow-dependent, protected entities – **I**nstream **P**rotected **U**ses, **O**utstanding **C**haracteristics, and **R**esources (See your binder)
- IPUOCRs define the flow assessments that will be needed



# What is an IPUOCR?

- **IPU** –listed in RSA 483:9-c,I
- **OC** –listed in RSA 483:1
- **R** –listed in RSA 483:6,IV,(a)
- Designated Uses under the Clean Water Act cited in NHDES CALM

# Instream Public Uses

- ***Env-Ws 1905.02 Protected Instream Flow Study. The protected instream flow study shall: . . . (c) For each segment, identify and catalog all instream public uses on the designated river listed under RSA 483:9-c.I***
- include the state's interests in surface waters, including, but not limited to, navigation; recreation; fishing; storage; conservation; maintenance and enhancement of aquatic and fish life; fish and wildlife habitat; wildlife; the protection of water quality and public health; pollution abatement; aesthetic beauty; and hydroelectric energy production

# Outstanding Characteristics

- ***Env-Ws 1905.02 Protected Instream Flow Study. The protected instream flow study shall: . . . (b) For each segment, identify and catalog outstanding characteristics listed under RSA 483:1***
- including recreational, fisheries, wildlife, environmental, cultural, historical, archaeological, scientific, ecological, aesthetic, community significance, agricultural, and public water supply so that these valued characteristics shall endure as part of the river uses to be enjoyed by New Hampshire people



# Resources

- ***Env-Ws 1905.02 Protected Instream Flow Study. The protected instream flow study shall: . . . (d) For each segment, identify and catalog all resources for which the river or segment is designated pursuant to RSA 483:6 IV a***
- Whether the river, or segment or segments of such river, contain or represent either a significant statewide or local example of one or more of the following: (1) Scenic or recreational resource. (2) Open space or natural resource. (3) Fisheries, wildlife, vegetation, and rare species or habitat. (4) Cultural, historical, or archaeological resource. (5) Hydrological or geological resource. (6) Water quality. (7) Scientific resource. (8) Community resource. (9) Current and projected withdrawals, discharges, or both, by public utilities and commercial or industrial users.

# Designated Uses under the federal Clean Water Act

- Aquatic Life
- Fish Consumption
- Shellfish Consumption
- Drinking Water Supply
- Primary Contact Recreation (i.e. swimming)
- Secondary Contact Recreation
- Wildlife

# **Integrated List of Some Protected Entities**

- Recreation
- Fisheries
- Open space
- Natural resources
- Storage
- Wildlife
- Rare species or habitat
- Vegetation
- Cultural resources
- Aquatic and fish life
- Hydrologic resource
- Fish & wildlife habitat
- Geologic resource
- Water quality
- Pollution abatement
- Aesthetic beauty
- HE energy production
- Agriculture
- Public water supply
- CWA Designated Uses



# What are IPUOCRs used for?

- Inventory of protected entities define PISF goals.
- Flow-dependent IPUOCRs determine the PISF assessment methods to be used.

# IPUOCR Definitions

- IPUOCR Definitions document is on the website.
- Some IPUOCRs were defined from Nomination Guidance.
- Designated Uses were defined from the NHDES Consolidated Assessment and Listing Methodology.
- Remaining were defined by NHDES WMB.

# Lamprey-specific information

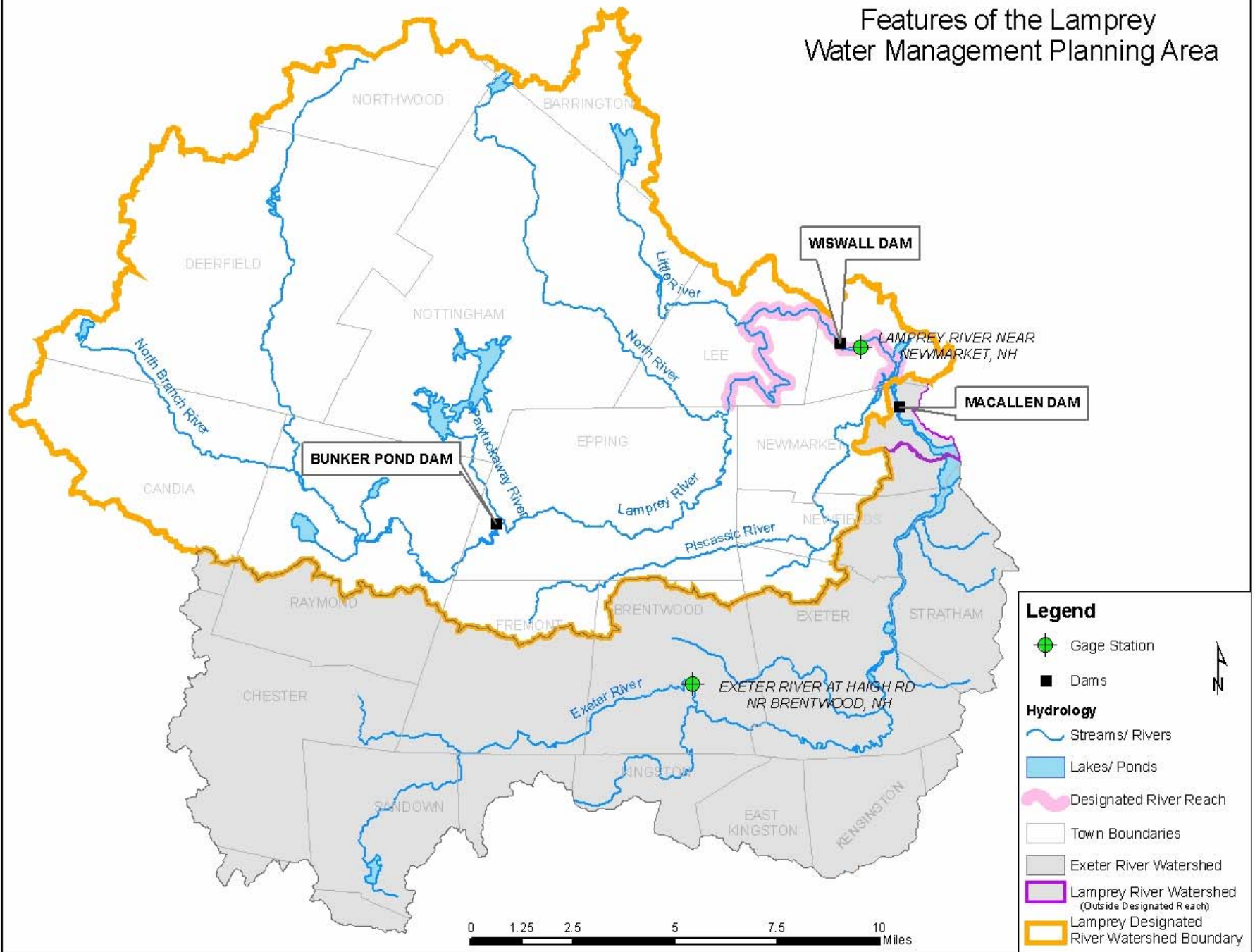


# Preliminary IPUOCR List

NH DES has compiled a preliminary list of IPUOCR entities for the Lamprey River DR available at <http://www.des.state.nh.us/rivers/instream/lamprey.asp?link=study>.



# Features of the Lamprey Water Management Planning Area

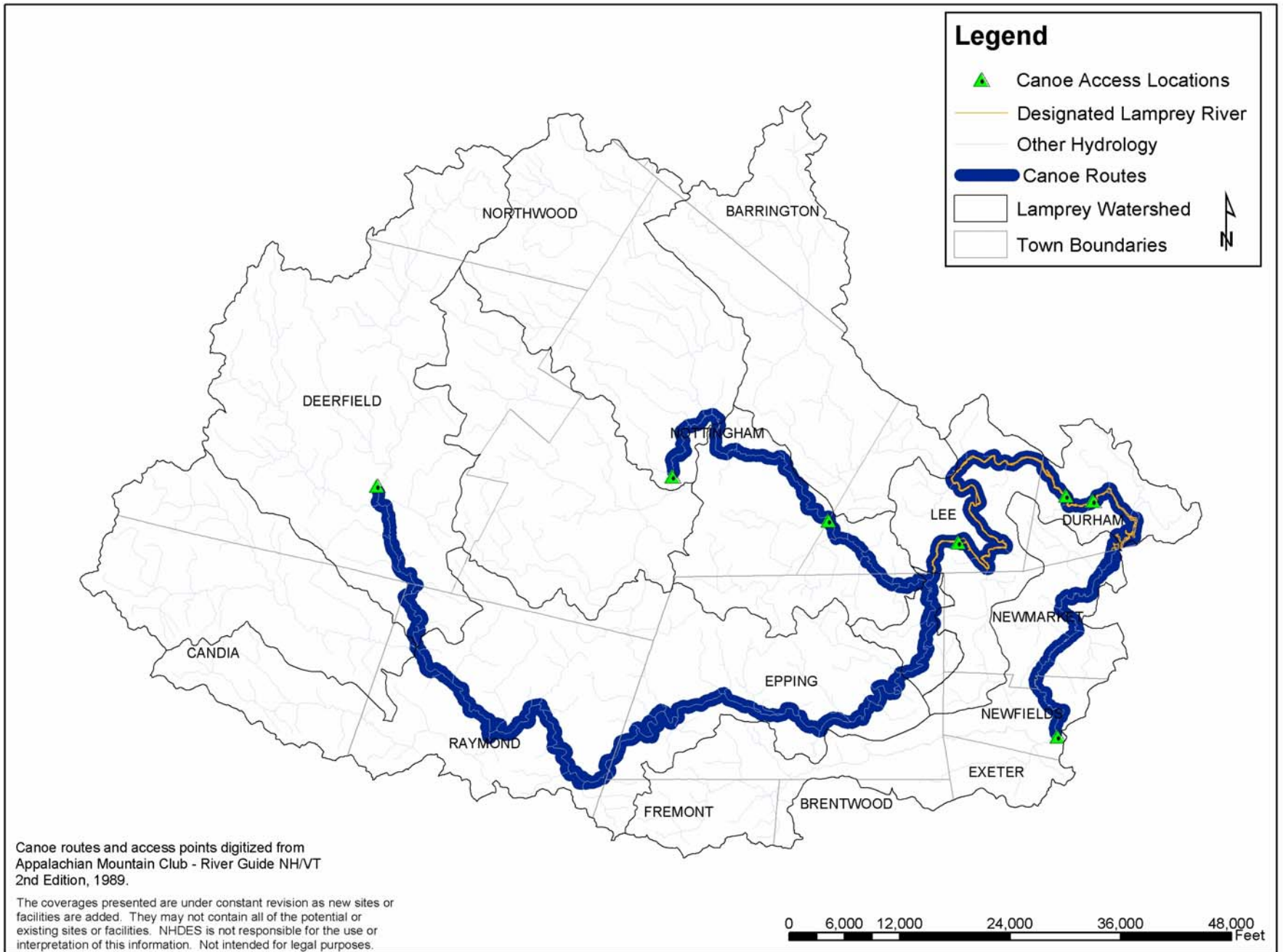


# Recreation or Recreational Resource

- Recreational use or resource means use of the river for swimming, boating or significant shoreland recreation, including, but not limited to, hiking, camping, picnicking, and bird watching.



# Canoe Access Points and Routes - Lamprey River WMPA



# Fish habitat

- Fish habitat means regions which are important to the survival of fish populations. Such regions include, but are not limited to, aquatic life spawning beds and feeding areas, freshwater wetlands or riparian habitat, and saltwater wetlands associated with estuarine systems.

# Fishing or Fisheries

- Fishing and Fisheries means recreational and commercial uses of the river for fishing identified by the presence of fish that are caught for recreation or commercial use.

## Rare species or habitat

- Rare species are identified by lists of plants and animals or fish available from NHI and by the nomination papers. Rare habitats are habitats that support rare species or are rare ecosystems.
- Special arrangement with NH Natural Heritage Bureau to use protected information to identify rare species and exemplary natural communities .

# Cultural or Cultural resource

- Cultural resources or characteristics mean on-going river corridor management planning effort or other local efforts to protect or manage the river, the existence of a riverside park or other public area, or community support for riverfront revitalization as demonstrated by acts such as the filing of a petition, establishment of a municipal committee or citizen group, or fundraising activities.

# Community significance or Community resource

- Community river resource means a natural, managed, cultural, or recreational resource or use thereof associated with a river that is recognized by local residents or a municipal document accepted by the municipality, such as a master plan or a water resource management plan, as being important to a community adjacent to a river. "Recognized by local residents" for the purposes of this definition means that there are community projects, activities or events based on the river or its corridor such as river clean-ups, canoe races, or a riverfest. Community significance shall not include hydroelectric power generation.



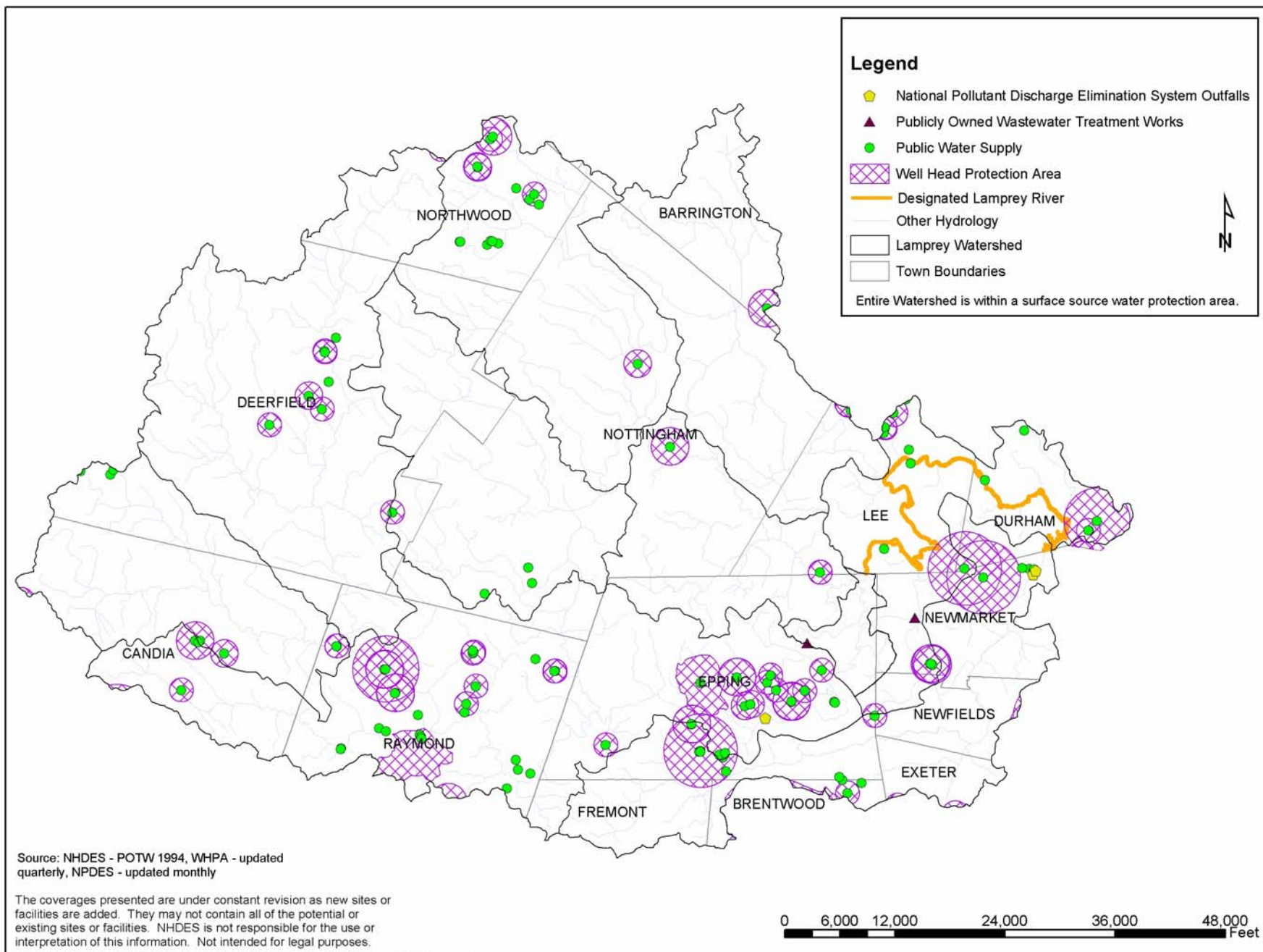
## Aesthetic beauty or Scenic resource

- Scenic sites shall include, but not be limited to, designated viewing areas, scenic vistas, and overlooks.

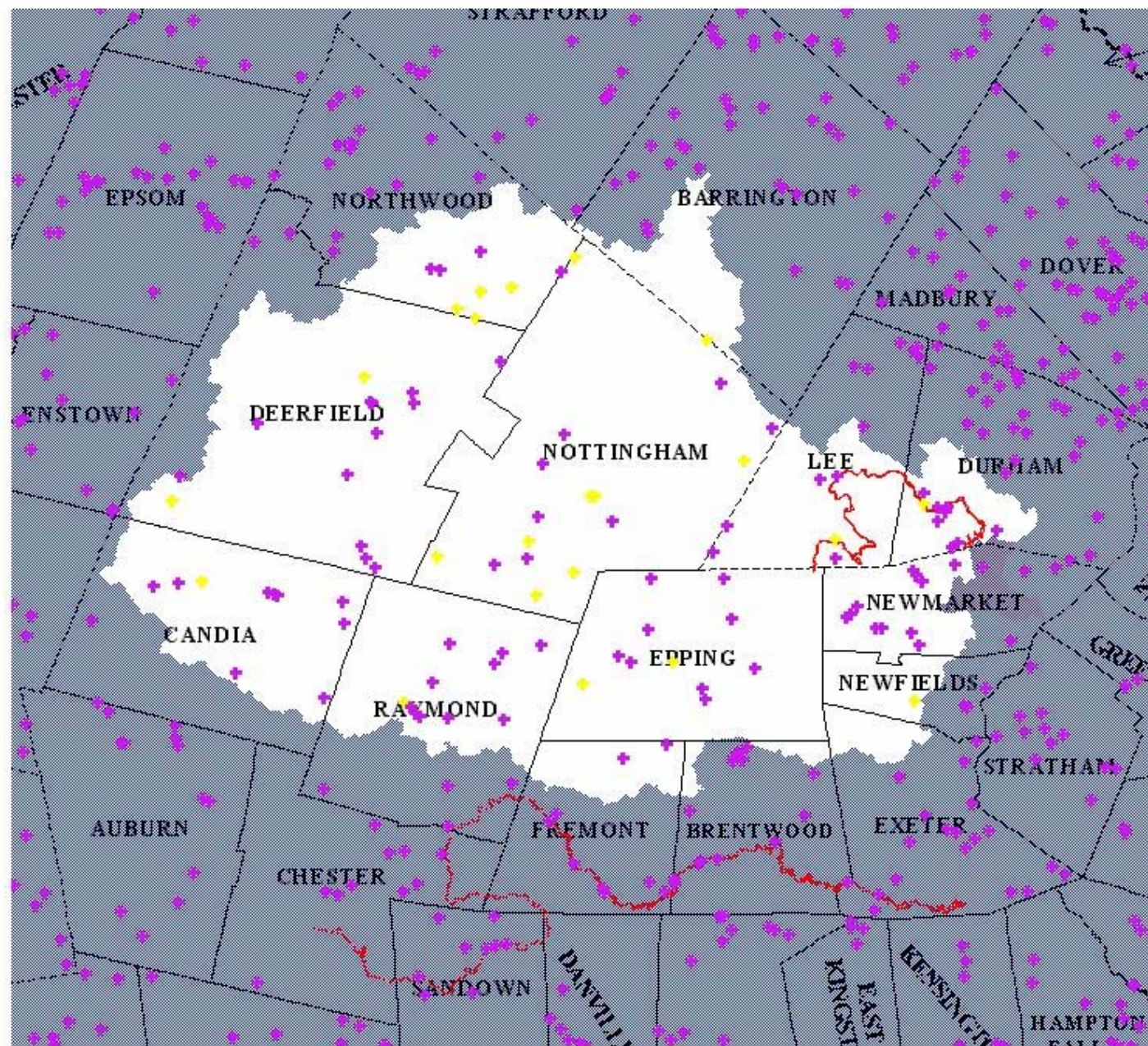
# Pollution abatement

- Pollution abatement includes wastewater treatment facilities or industrial treatment facilities and aspects of flow affecting assumptions of flow for dilution and dispersal of waste in mixing zones and the rivers overall capacity to mitigate natural and non-point source contamination.

# Public Water Supply, POTW, and NPDES Sites - Lamprey River WMPA







- ✚ Dams.shp
- Designated Reaches
- Political Boundaries
- State boundary
- County boundary
- Town boundary



2 0 2 4 6 8 Miles



# Process for IPUOCR development

- Research documents to identify IPUOCRs
  - The consultant will research applicable files, records and studies, and may need to conduct structured interviews with local watershed authorities to develop information about the specific IPUOCR entities, their river location, and their dependence on river flow conditions.
  - The consultant will present an annotated list of the IPUOCR entities to both advisory committees for their review and comment. The list will identify and briefly describe the IPUOCR entities, and if known, their location within the DR.
- On-stream survey for IPUOCRs
- The consultant will document this information completely in a draft IPUOCR report.

# WMPAAC Activities

- Review IPUOCR types
- Identify and map specific IPUOCRs based on local knowledge for consultant's field survey
- Review the draft IPUOCR list from consultant for completeness





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<http://www.des.state.nh.us/rivers/instream/>